| | Application No. | Applicant(s) | |
|---|---|---|---|
| ***Notice of Allowability*** | 09/686,299 | FRAZIER ET AL. | |
| | Examiner | Art Unit | |
| | LaShonda T Jacobs | 2157 | |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *August 24, 2004*.

2. ☒ The allowed claim(s) is/are *1-11, 13-14, 17-26, 30-36*.

3. ☒ The drawings filed on *11 October 2004* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All    b) ☐ Some*    c) ☐ None   of the:

       1. ☐ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

## EXAMINER'S AMENDMENT

1.      An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Harden Stevens, Reg. No. 55,649 on January 14, 2005.

The application has been amended as follows:

## IN THE CLAIMS

Please cancel claims 39-41 without prejudice or disclaimer.

Please amend claims 1, 17, 20, 26, 30 and 36.

1. (Currently Amended) A system comprising:

- an interface to receive a request from a client system for information in a database

  system; and

- a controller to format metadata associated with the requested information into a format

  for display in the client system, wherein said controller is adapted to map plural data

  types defined by the database system to corresponding files types to enable presentation

in the client system of an object having an associated data type retrieved from the

database system,

- wherein said controller is adapted to further ~~to~~ map plural data types to the

  corresponding files types based on a table having multiple entries each associating a

  data type defined by the database system with a file extension corresponding to a

  respective file type, and

- wherein the controller is adapted to create a file name for the object, the file name

  containing the file extension mapped for the data type of the object, and to send a file

  having the file name to the client system, the file containing the object.

17. (Currently Amended) A method of accessing an object relation database, comprising:

- loading an applet over a network from a server;

- executing the applet to present an interactive interface in a browser display screen to

  receive user queries and to send requests for information from the object relational

  database in response to the user queries;

- receiving metadata relating to requested information from the object relational

  database;

- displaying at least a portion of the metadata as a hyperlink;

- in response to selection of the hyperlink, sending a request for an object in the object

  relational database, the object containing information associated with the selected

  metadata portion;

- associating the object with one of plural presentation routines to present  the

  information in the object;

- mapping plural data types stored in the object relational database to corresponding

  plural file types; and

- identifying a file type of the object based on the mapping, [[.]] wherein mapping the

  plural data types to corresponding plural file types comprises mapping, based on a

  mapping table, the plural data types defined by object relational database to the

  corresponding file types, wherein the mapping table has entries mapping a data type to

  a corresponding file extension with a respective file type.

20. (Currently Amended) An article comprising at least one storage medium containing

instructions that when executed cause a first system to:

- receive a request from a client system for data in a database;

- retrieve the data from the database type; and

- determine a data type of the retrieved data and map the data type to a file type

  presentable by the client system type, wherein mapping the data type to the file type

  comprises accessing a table having multiple entries to map plural data types associated

  with data stored in the database with corresponding plural file types presentable by the

  client system, each entry of the table associating a data type defined by the database

  with a file extension corresponding to a respective file type, and [[.]]

- wherein the instructions when executed cause the first system to further create a file

  name for the retrieved data, the file name containing the file extension mapped for the

  data type of the retrieved data, and to further send a file having the file name to the

  client system, the file containing the retrieved data.

26. (Currently Amended) A system comprising:

- one or more storage devices containing an applet and a document;

- an interface to a network; ~~and~~

- a controller to communicate the document to a client device, the document containing

    data defining a page displayable in a browser screen, and the applet containing

    instructions that when executed provide an interactive portion of the browser screen to

    enable user entry of Structured Query Language (SQL) queries, <u>wherein said</u> ~~the~~ applet

    responsive to SQL queries entered in the interactive portion of the browser screen by

    sending corresponding requests for accessing data in a database system; <u>and</u> [[.]]

- <u>wherein the controller is adapted to create a file name for the object, the file name</u>

    <u>containing the file extension mapped for the data type of the object, and to send a file</u>

    <u>having the file name to the client system, the file containing the object.</u>

30. (Currently Amended) A system comprising:

- an interface to receive a request from a client system for information in a database

    system; <u>and</u>

- a controller to format metadata associated with the requested information into a format

    for display in the client system; <u>wherein said</u> controller <u>is adapted</u> ~~further~~ to map plural

    data types in the database system to corresponding files types to enable presentation in

    the client system of an object having an associated data type retrieved from the

    database; ~~and~~ ,

- wherein the controller is adapted to communicate the requested information and

    executable code associated with the requested information to the client system, the

    executable code for presenting the requested information in the client system<u>, and</u>

- wherein the controller is adapted to create a file name for the object, the file name containing the file extension mapped for the data type of the object, and to send a file having the file name to the client system, the file containing the object.

36. (Currently Amended) An article comprising at least one storage medium containing instructions that when executed cause a first system to:

- receive a request from a client system for data in a database;

- retrieve the data from the database; and

- determine a data type of the retrieved data and map the data type to a file type presentable by the client system type;

- wherein mapping the data type to the file type comprises accessing a table having multiple entries to map data structure that maps plural data types associated with data stored in the database with corresponding plural file types presentable by the client system[[.]] ;

- wherein the instructions when executed cause the first system to communicate executable code stored in the database and associated with the retrieved data to the client system, the executable code for presenting the retrieved data in the client system[[.]] , and

- wherein the instructions when executed cause the first system to further create a file name for the retrieved data, the file name containing the file extension mapped for the data type of the retrieved data, and to further send a file having the file name to the client system, the file containing the retrieved data.

*Reasons for Allowance*

2.      Claims **1-11**, **13-14**, **17-26**, **30-32** and **34-36** are allowed.


3.      The following is an examiner's statement of reasons for allowance: none of the prior

teaches wherein the controller is adapted to create a file name for the object, the file name

containing the file extension mapped for the data type of the object, and to send a file having the

file name to the client system, the file containing the object.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LaShonda T Jacobs whose telephone number is 571-272-4004.

The examiner can normally be reached on 8:30 A.M.-5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


LaShonda T Jacobs
Examiner
Art Unit 2157

ltj
January 19, 2005

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SUPERVISORY PATENT EXAMINER
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